Installing Enterprise Edition on Debian and Ubuntu

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1. Install the Server Using APT-GET

1.1 Configure APT Repository

The Advanced Packaging Tool, or APT, is used to handle the retrieval, configuration, and installation of software packages and the removal of software on Debian GNU/Linux distributions. Configure an APT repository to manage installations of and upgrades to CDP Enterprise Edition.

First, modify your `/etc/apt/sources.list` to include the R1Soft repository, and then download the R1Soft `apt gpg` key.

```
# echo deb http://repo.r1soft.com/apt stable main >> /etc/apt/sources.list
# wget http://repo.r1soft.com/r1soft.asc
# apt-key add r1soft.asc
```

When the repository is configured, run `apt-get update` to download the information about the packages in the new repository:

```
# apt-get update
```

```
root@debian-server:~# echo deb http://repo.r1soft.com/apt stable main >> /etc/apt/sources.list
root@debian-server:~# wget http://repo.r1soft.com/r1soft.asc
--2011-04-19 07:16:41--  http://repo.r1soft.com/r1soft.asc
Resolving repo.r1soft.com... 198.64.248.201
Connecting to repo.r1soft.com|198.64.248.201|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2819 (2.8K) [text/plain]
Saving to: `r1soft.asc'

100%[======================================================================>] 2,819       --.-K/s   in 0s

2011-04-19 07:16:41 (55.5 MB/s) - `r1soft.asc' saved [2819/2819]

root@debian-server:~# apt-key add r1soft.asc
OK
root@debian-server:~# apt-get update
Get:1 http://security.debian.org squeeze/updates Release.gpg [836 B]
Get:2 http://repo.r1soft.com stable Release.gpg [189 B]
Ign http://security.debian.org/ squeeze/updates/main Translation-en
Ign http://security.debian.org/ squeeze/updates/main Translation-en_US
Get:3 http://cdn.debian.net squeeze Release.gpg [1,672 B]
Ign http://cdn.debian.net/debian/ squeeze/main Translation-en
Ign http://cdn.debian.net/debian/ squeeze/main Translation-en_US
Get:4 http://cdn.debian.net squeeze-updates Release.gpg [836 B]
Ign http://cdn.debian.net/debian/ squeeze-updates/main Translation-en
Ign http://cdn.debian.net/debian/ squeeze-updates/main Translation-en_US
Get:5 http://cdn.debian.net squeeze Release [107 kB]
Get:6 http://security.debian.org squeeze/updates Release [86.9 kB]
Get:7 http://cdn.debian.net squeeze-updates Release [113 kB]
Ign http://repo.r1soft.com/apt/ stable/main Translation-en
Get:8 http://cdn.debian.net squeeze/main Sources [5,767 kB]
Ign http://repo.r1soft.com/apt/ stable/main Translation-en_US
Get:9 http://security.debian.org squeeze/updates/main Sources [78.8 kB]
Get:10 http://repo.r1soft.com stable Release [2,047 B]
Get:11 http://security.debian.org squeeze/updates/main amd64 Packages [247 kB]
Get:12 http://repo.r1soft.com stable/main amd64 Packages [1,388 B]
Get:13 http://cdn.debian.net squeeze/main amd64 Packages [8,603 kB]
Get:14 http://cdn.debian.net squeeze-updates/main Sources/DiffIndex [2,023 B]
Get:15 http://cdn.debian.net squeeze-updates/main amd64 Packages/DiffIndex [2,023 B]
Get:16 http://cdn.debian.net squeeze-updates/main Sources [4,305 B]
Get:17 http://cdn.debian.net squeeze-updates/main amd64 Packages [14.9 kB]
Fetched 15.0 MB in 4s (3,275 kB/s)
Reading package lists... Done
root@debian-server:~#
```

1.2 Install the Package

1. Once the APT repository is configured, you can use the following command to install the CDP Server:

```
#apt-get install r1soft-cdp-enterprise-server
```

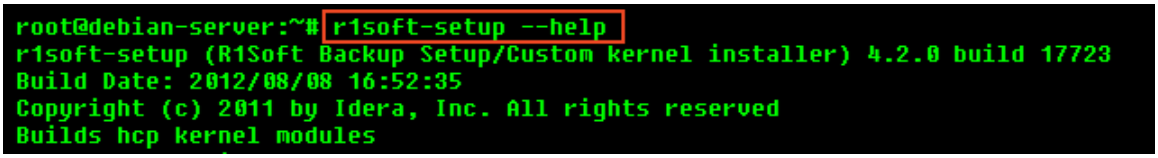
```
root@debian-server:~# apt-get install r1soft-cdp-enterprise-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  r1soft-cdp-server r1soft-setup
The following NEW packages will be installed:
  r1soft-cdp-enterprise-server r1soft-cdp-server r1soft-setup
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/109 MB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue [Y/n]?
Selecting previously deselected package r1soft-setup.
(Reading database ... 35320 files and directories currently installed.)
Unpacking r1soft-setup (from .../r1soft-setup_4.2.0_amd64.deb) ...
```

2. Once the installation is complete, you can use the help command to list all available options:

```

```

```
#r1soft-setup --help
```



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2. Install the Server Manually (Using DPKG)

2.1 Download CDP Enterprise Edition

See Obtaining Linux CDP Enterprise Edition.

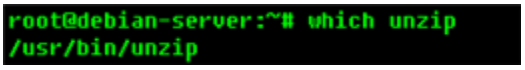
2.2 Make Sure You Can Unzip the Download

Most Linux distributions come with the unzip utility pre-installed. To determine if you have the unzip utility, run:

```
# which unzip
```

This should return an output similar to the following:

```
# which unzip
/usr/bin/unzip
```

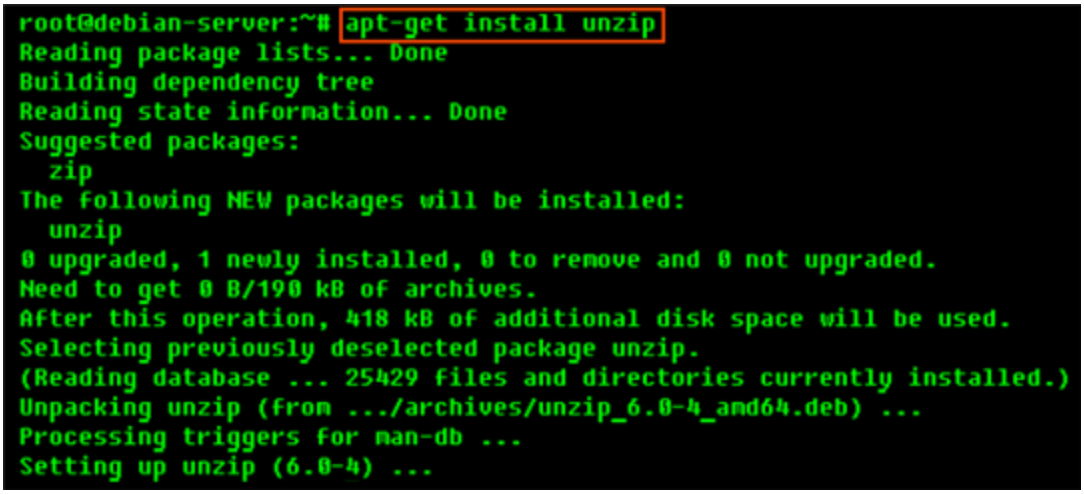


If it returns the following, you need to install the unzip utility first:

```
unzip: Command not found.
```

To install unzip on Debian or Ubuntu:

```
# apt-get install unzip
```



2.3 Extract the ZIP File

We recommend creating a temporary directory to which you can extract the contents of the ZIP file.

1. Use the `mkdir` command to create a temporary directory (in our case, `cdp`).

```
# mkdir cdp
```

2. Use the `mv` command to move the archive to that directory. Note that Linux file names are case-sensitive. Make sure you type the name correctly (in our case, "r1soft-enterpriseedition-linux64-4.2.0.zip").

```
# mv r1soft-enterpriseedition-linux64-4.2.0.zip cdp
```

3. Use the `cd` command to go to that directory.

```
# cd cdp
```

4. Use the `unzip` command to extract the files.

```
# unzip r1soft-enterpriseedition-linux64-4.2.0.zip
```

2.4 Install the Packages Using dpkg

> **Notice**
> You must be a Linux root user to install CDP Enterprise Edition.

The archive you have extracted contains two folders: one with `.deb` packages (in our case, " deb-linux32") and one with `.rpm` packages ("rpm-linux32"). If you are installing on Debian or Ubuntu, choose the `.deb` package.

Each folder contains a set of CDP components:

- `r1soft-cdp-enterprise-edition`
- `r1soft-setup`
- `r1soft-cdp-agent`
- `r1soft-cdp-async-agent-2-6`
- `r1soft-cdp-server`

You will need to install all of them in one step. Use the `cd` command to go to the folder with the packages (in our case, "deb-linux32") and run the following command:

DEB 32-bit (x86) / DEB 64-bit (x86_64)

```
dpkg -i *.deb
```

```
root@debian-server:~/cdp-enterprise-temp-install# dpkg -i *.deb
Selecting previously deselected package r1soft-cdp-enterprise-server.
(Reading database ... 25447 files and directories currently installed.)
Unpacking r1soft-cdp-enterprise-server (from r1soft-cdp-enterprise-server-amd64-3.18.1.deb) ...
Selecting previously deselected package r1soft-cdp-server.
Unpacking r1soft-cdp-server (from r1soft-cdp-server-amd64-3.18.1.deb) ...
Selecting previously deselected package r1soft-setup.
Unpacking r1soft-setup (from r1soft-setup-amd64-3.18.1.deb) ...
Setting up r1soft-setup (3.18.1) ...
Setting up r1soft-cdp-server (3.18.1) ...
You will need to assign a username and password to the R1Soft CDP Server.
You can do this with '/usr/bin/r1soft-setup' utility.
Use '/usr/bin/r1soft-setup --help' for more information.
Setting up r1soft-cdp-enterprise-server (3.18.1) ...
root@debian-server:~/cdp-enterprise-temp-install#
```

Note
The installed files are located in the `/usr/sbin/r1soft` directory. The server startup script is `/etc/init.d/cdp-server`.

Note
You do not need to install the kernel module on the Server.

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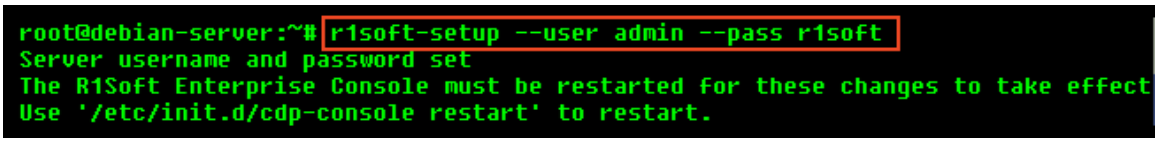
3. Configure and Start the CDP Server Web-based User Interface

1. You must define a username and password for the CDP Server Web Interface before you can begin using CDP Enterprise Edition.

```
# r1soft-setup --user DESIRE9D_USERNAME --pass DESIRED_PASSWORD
```

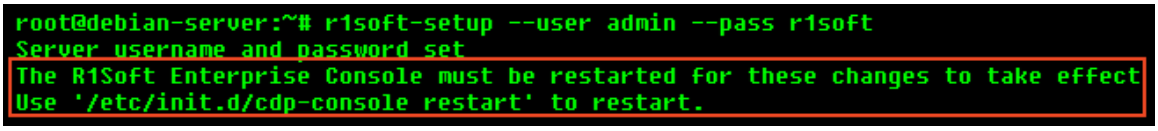
Example of how to set "admin" username and "r1soft" password:

```
# r1soft-setup --user admin --pass r1soft
```



After running this command, you will see an output similar to the following:

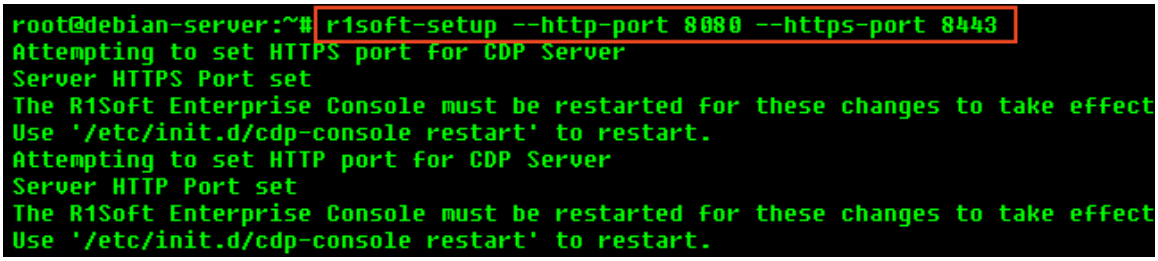
```
Server username and password set
The R1Soft CDP Server must be restarted for these changes to take effect
Use '/etc/init.d/cdp-server restart' to restart.
```



2. Configure ports, if necessary.

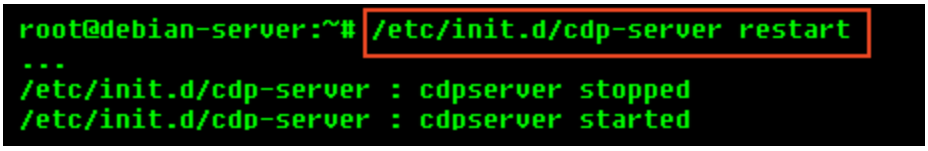
By default, the embedded web server in CDP Enterprise Edition required for the Web-based Interface will listen on TCP ports 80 (HTTP) and 443 (HTTPS). These ports are frequently used by your Linux server (e.g., by Apache). If you are already using ports 80 and 443, you will need to define different ports. Ports 8080 (HTTP) and 8443 (HTTPS) are recommended alternatives to standard 80 and 443. However, you can choose any other valid and unused TCP port.

```
# r1soft-setup --http-port 8080 --https-port 8443
```



3. Start the Web Interface (CDP Server):

```
/etc/init.d/cdp-server restart
```



> **Note**
> You may need to change the firewall rules, depending on where you are connecting to the Web Interface from.

You should now be able to connect to the CDP Enterprise Edition Web Interface using Firefox or Internet Explorer.

Next Steps

- Configuring Enterprise Edition on Linux
- Installing Agent on Windows
- Installing Agent on Linux
- Accessing Enterprise Edition Web Interface
- Activating CDP Enterprise Edition
- Adding the Server Key to Linux Agent
- Adding the Server Key to Windows Agent
- Configuring Heap Memory